

PA

Work Order ID 149879

149879

August 05, 2016 2:27:05 PM

Item ID: D5110-1 Accept *N900040100* Setup Start *NS1*

Revision ID: Stop *NS2*

Item Name: Swivel Nut Fitting

Start Date: 9/27/2016 Start Qty: 10.00 *10* Cust Item ID:

Required Date: 10/11/2016 Req'd Qty: 10.00 *10* Customer:

Reference:

Approvals: Process Plan: SH Date: AUG 05 2016 Tooling: _____ Date: _____ Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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D5110	B
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100

0.00

100

Purchasing

Purchasing

Memo

Issue P/O: 33280

0.00

Purchase part #: 12 C6X SS

Possible supplier: PARKER HANNIFIN

Certificate of conformity is required

10 AUG 09 2016

DAS
13
9-89

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Packaging

Memo

Certificate of conformity is required.

0.03

10 DAS
6
9-89

AUG 15 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

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 Item Name: Swivel Nut Fitting
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 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control									
121		0.00							
121									
Mill Conv	Memo	0.50							
Conventional Milling Machine	DRILL LOCK WIRE HOLES AS PER DWG								
	AND Folio FB490.								
	Dwg Rev: B								
	Folio Rev: AA								
122	QC2- Inspect parts off machine FAI/FAIB	0.00							
122									
QC	Memo	0.03							
Quality Control									

DAS
38
9-89
AUG 15 2016

DAS
08
9-89

DAS
08
9-89

Handwritten notes:
 121
121
 Mill Conv
 Conventional Milling Machine
 5 AXIS.

Handwritten note:
 B. 16/08/24

Handwritten note:
 B. 16/08/24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Item ID: D5110-1 Accept ***N900040100*** Setup Start ***NS1***
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Item Name: Swivel Nut Fitting
Start Date: 9/27/2016 Start Qty: 10.00 ***10*** Cust Item ID:
Required Date: 10/11/2016 Req'd Qty: 10.00 ***10*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
123 *123* QC Quality Control	QC8- Inspect parts - second check Memo	0.00 0.03				<u>10</u>	<u>0</u>		DAS 33 9-89 <i>11/01/25</i>
130 *130* Packaging Packaging	Identify as per dwg & Stock Location: <u>5112</u> Memo	0.00 0.02				<u>10</u>			DAS 6 9-89 AUG 26 2016
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.17							<i>RU</i> AUG 29 2016

DAS
21
9-89

AUG 26 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

Picklist Print

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Page 1

Work Order ID: 149879

149879

Parent Item: D5110-1

D5110-1

Parent Item Name: Swivel Nut Fitting

Start Date: 9/27/2016

Required Date: 10/11/2016

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP REV:A 14.06.18 AS PER DWG REV.A DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
12 C6X SS *12 C6X SS* Swivel Nut Fitting		Purchased		No			Each	0.0000	**	10			

DAS
6
9-89

Aug 15 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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OTHER : ☐					

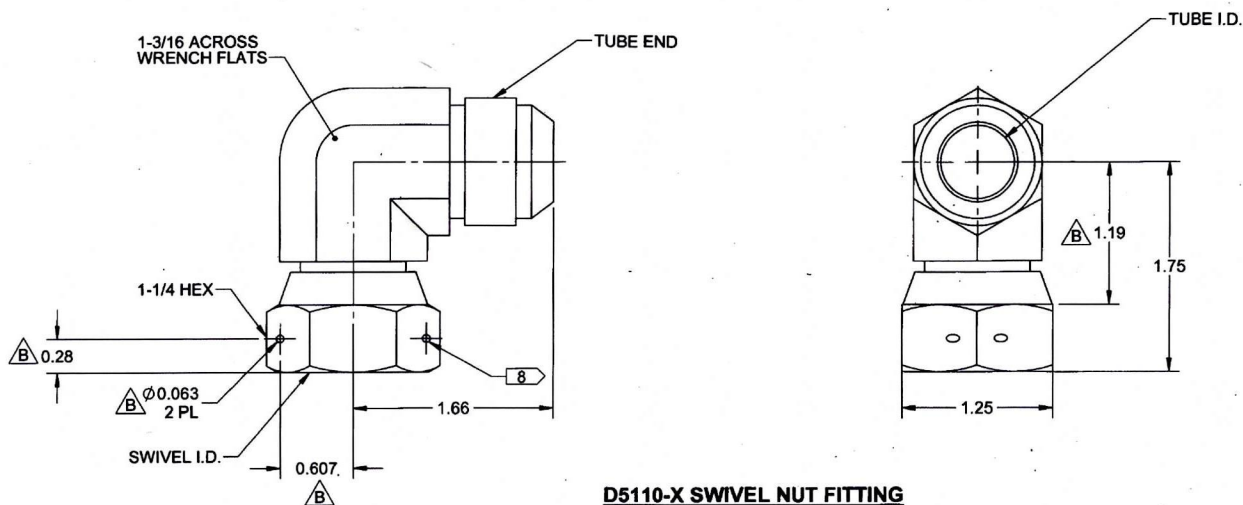
DART AEROSPACE LTD		Work Order:	149879
Description: Swivel Nut Fittings		Part Number:	D5110-1
Inspection Dwg: D5110 Rev: B		Page 1 of 1	

INSPECTION SHEET

[illegible]

Measured by: De		Checked by: 33		QC Inspector:	
Date: 16/08/24		Date: 16/08/25		Date:	
Engineering Approval: (If necessary)				Date:	
Rev	Date	Change	Revised by		Approved
B	14.07.31	New Issue	KJ		

SPECIFICATION CONTROL DRAWING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 149879
S8

AUG 05 2016

DART PART NUMBER	VENDOR PART NUMBER	TUBE END	TUBE ID	SWIVEL END	SWIVEL ID	MATERIAL	POSSIBLE SUPPLIER	WEIGHT
D5110-1	12 C6X SS	1-1/16 - 12 UNF-2A	0.610	1-1/16 - 12 UNF-2A	0.610	316 SS	PARKER HANNIFIN	1.90 LBS

NOTES:

- 1) SUPPLIER: SEE TABLE
- 2) MATERIAL: SEE TABLE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: PER QSI 044 6.1
- 7) WEIGHT: PER TABLE
- 8) LOCKWIRE HOLES TO BE ADDED BY PRODUCTION

RELEASED
2016-08-04
ECN 16-672

APPROVED

B	ADDED LOCKWIRE HOLES	CC	16.06.20
A	NEW ISSUE	DB	14.04.24
REV.	DESCRIPTION	BY	DATE
DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	CC		
CHECKED	AK	DRAWING NO.	REV. B
MFG. APPR.	JLM	D5110	SHEET 1 OF 1
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	SWIVEL NUT FITTING	NTS
DATE	16.06.20	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO33280**

Purchase Order Date 8/9/2016 2:33:24 PM

PO Print Date 8/9/2016

Page Number 1 of 2

Order From :

VC-ROY001

RBC ROYAL BANK - VISA
PAYMENT CENTRE, PO BOX 4016, STAT. A
TORONTO, ON M5W 1X6
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

AUG 09 2016

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

FedEx Economy collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

COD

Currency

CAD

FOB

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	12 C6X SS	Swivel Nut Fitting	8/15/2016 Yes 8/15/2016	FN	10.00 Each	\$152.21	\$1,522.10
	AS PER DWG D5110 REV. B B149879						
Line Total:							\$1,522.10
2	71401-45	PROCUREMENT QUALITY CLAUSE	8/15/2016 No 8/15/2016		1.00	\$0.00	\$0.00
	Procurement Quality Clauses A005 RIGHT OF ENTRY A016 PERSONNEL QUALIFICATION A026 CERTIFICATION OF MATERIAL CONFORMANCE A040 NOTIFICATION OF QUALITY ESCAPE A041 QUALITY MANAGEMENT SYSTEM A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS PER DRWG D5110 REV A B143630 PARKER HANNIFIN P/N 12 C6X SS						

16/8/15
16

PO Instructions: WAINBEE

Note:

8/9/2016



WAINBEE LIMITED
215 BOUL BRUNSWICK
POINTE-CLAIRE, QC H9R 4R7
Phone: 514-697-8810 Fax: 514-697-3070

Packing List

CUSTOMER P/O NUMBER	
PO33280	
RELEASE #	15046163-1
DATE	08/12/16 09:16:23

127404
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
613-632-3336

SHIP TO
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

ORDER NUMBER 15046163	ORDER DATE 08/09/16	SHIP DATE 08/12/16	WRITTEN BY Hugues Roy		CONTACT CHANTAL LAVOIE(E)			
CUSTOMER P/O NUMBER PO33280								
JOB #								
RELEASE #								
PRODUCT / DESCRIPTION				QUANTITY OPEN	U/M	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE /EXTENSION
12 C6X-SS 				10	EA	10	0	152.210
PARKER FITTING								1522.10

16/8/15
SD

Wainbee's Standard Terms and Conditions Apply

Returned Goods Not Accepted Without Prior Authorization.

Claims For Shortages Or Losses Are Not Accepted 10 Days After Shipment.